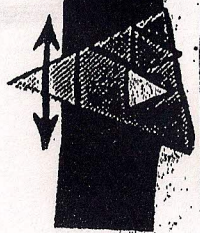


Lines, Angles and Triangles



Algebra Applications with Angles

Find x.

(Note: Vertical angles are congruent)

$2x = 80$ $x = 40$

$x + 4x = 90$ $x = 18$

$m\angle BAD = 90$

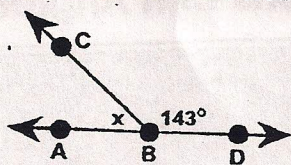
Find x.

 $\angle F$ and $\angle G$ are supplementary. $\angle H$ and $\angle J$ are complementary $\angle LKM$ is a right angle

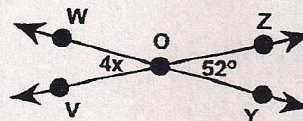
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...More Practice with Special Angles

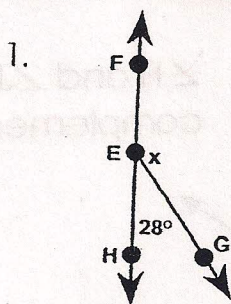
Find x and the measure of the angles.



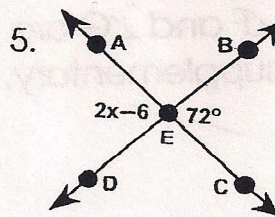
$$\begin{aligned}x + 143 &= 180^\circ \\x &= 180 - 143 \\x &= 37^\circ \\m\angle ABC &= 37^\circ\end{aligned}$$



$$\begin{aligned}4x &= 52 \\x &= \frac{52}{4} \\x &= 13 \\m\angle WOV &= 4x = 4 \cdot 13 = 52^\circ\end{aligned}$$

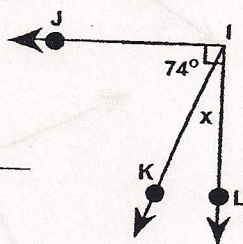


$$\begin{aligned}x &= ______ \\m\angle FEG &= ______\end{aligned}$$

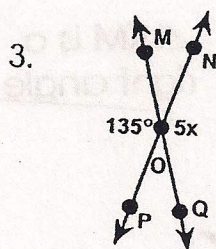
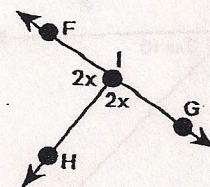


$$\begin{aligned}x &= ______ \\m\angle AED &= ______\end{aligned}$$

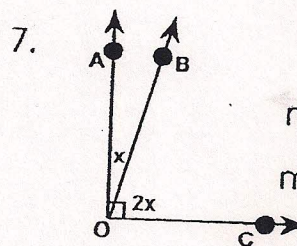
2. $x = ______$
 $m\angle KIL = ______$



6. $x = ______$
 $m\angle FIH = ______$
 $m\angle HIG = ______$

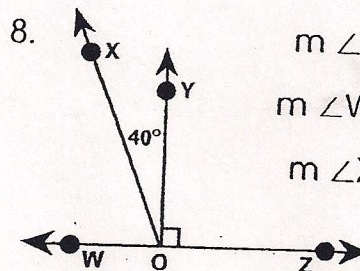
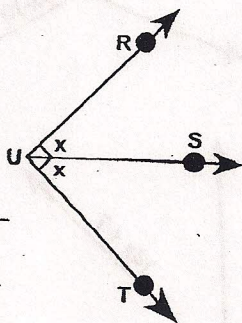


$$\begin{aligned}x &= ______ \\m\angle NOQ &= ______\end{aligned}$$



$$\begin{aligned}x &= ______ \\m\angle AOB &= ______ \\m\angle BOC &= ______\end{aligned}$$

4. $x = ______$
 $m\angle RUS = ______$
 $m\angle TUS = ______$



$$\begin{aligned}m\angle YOZ &= ______ \\m\angle WOX &= ______ \\m\angle XOZ &= ______\end{aligned}$$